

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P287023

Luminaire Tested: **USSL-C027-D-U-T3-BZ-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C027-D-U-T3-BZ-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11975 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

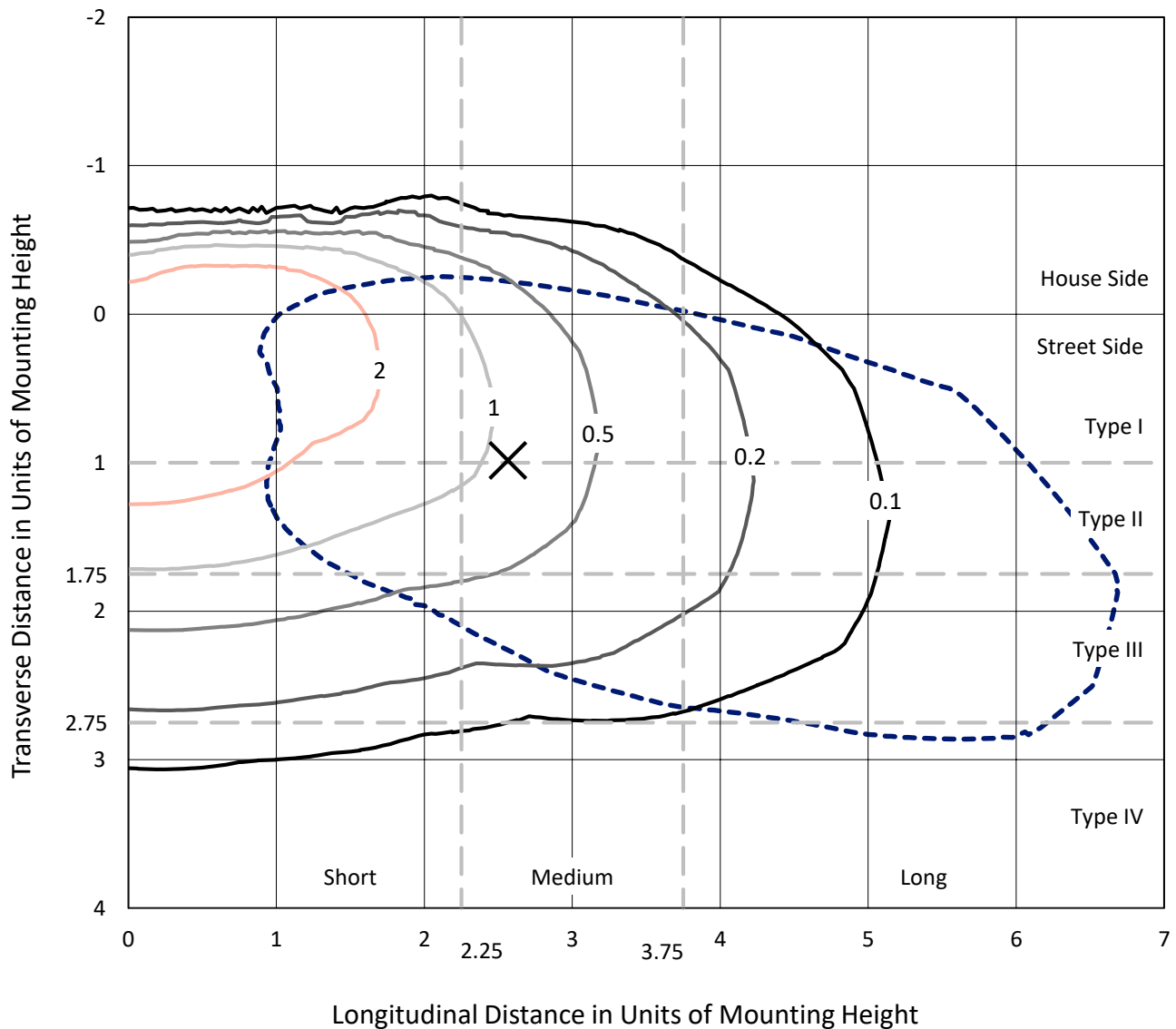


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

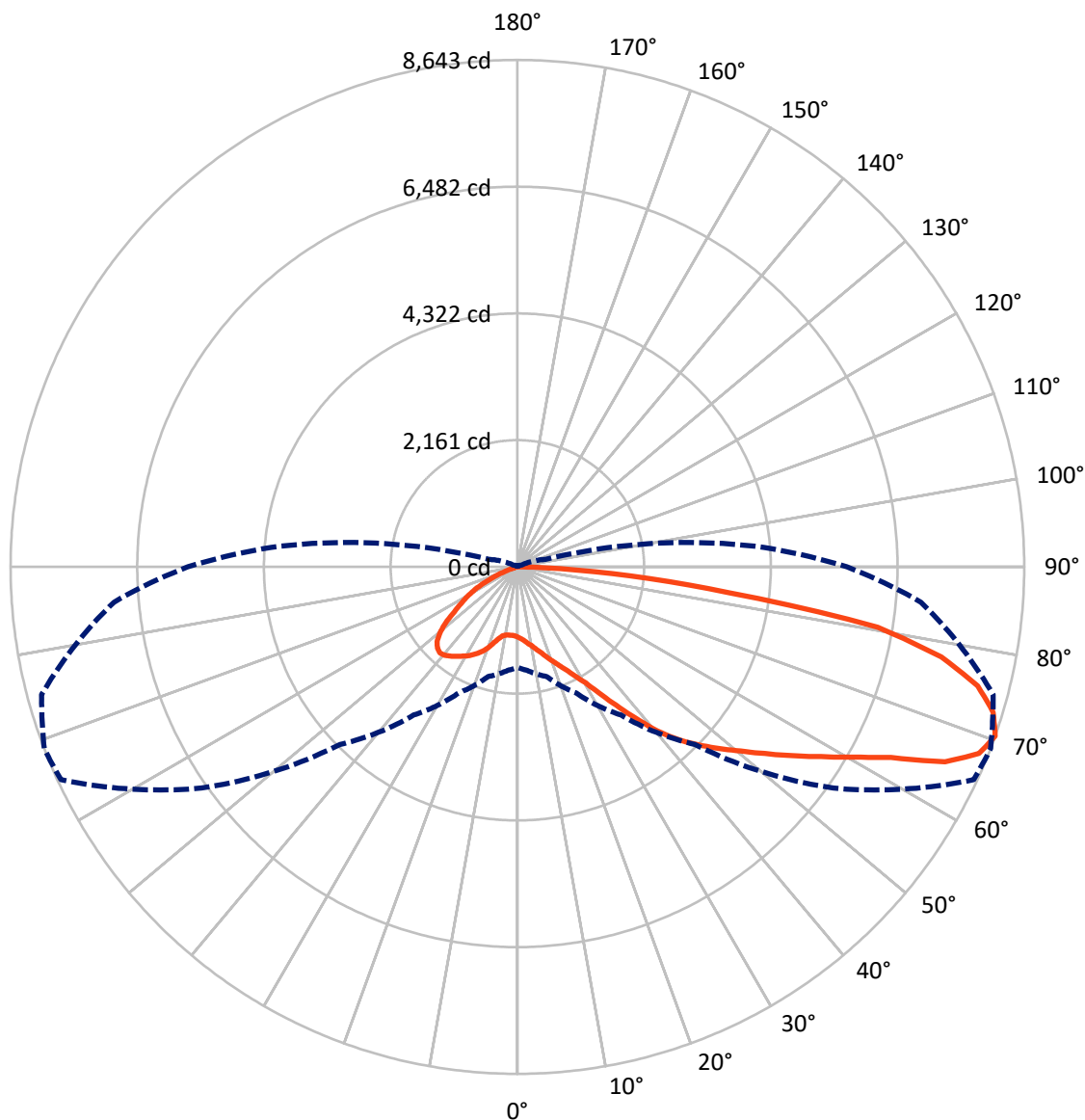


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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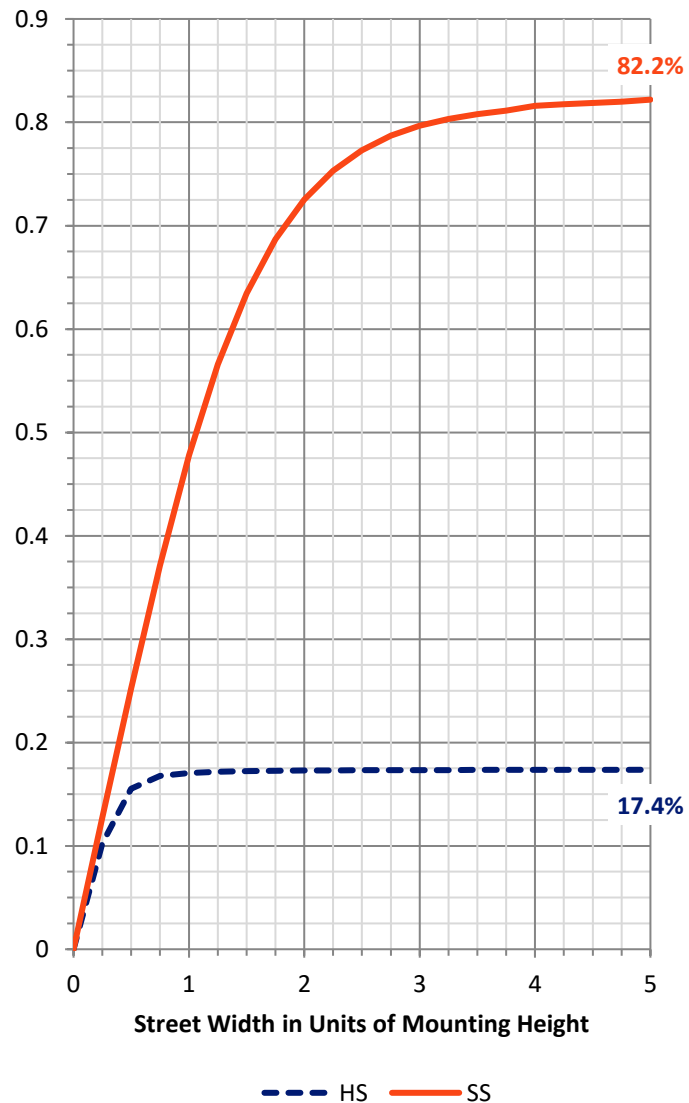
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2103.6	0.0	2103.6
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	9871.4	0.0	9871.4
	% Fixture	82.4	0.0	82.4
Total	Lumens	11975.0	0.0	11975.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	1.0
10°-20°	369.3	3.1
20°-30°	677.4	5.7
30°-40°	1163.4	9.7
40°-50°	1818.2	15.2
50°-60°	2428.2	20.3
60°-70°	2841.7	23.7
70°-80°	2134.7	17.8
80°-90°	425.6	3.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11975.0	100.0
0°-180°	11975.0	100.0

Coefficient of Utilization



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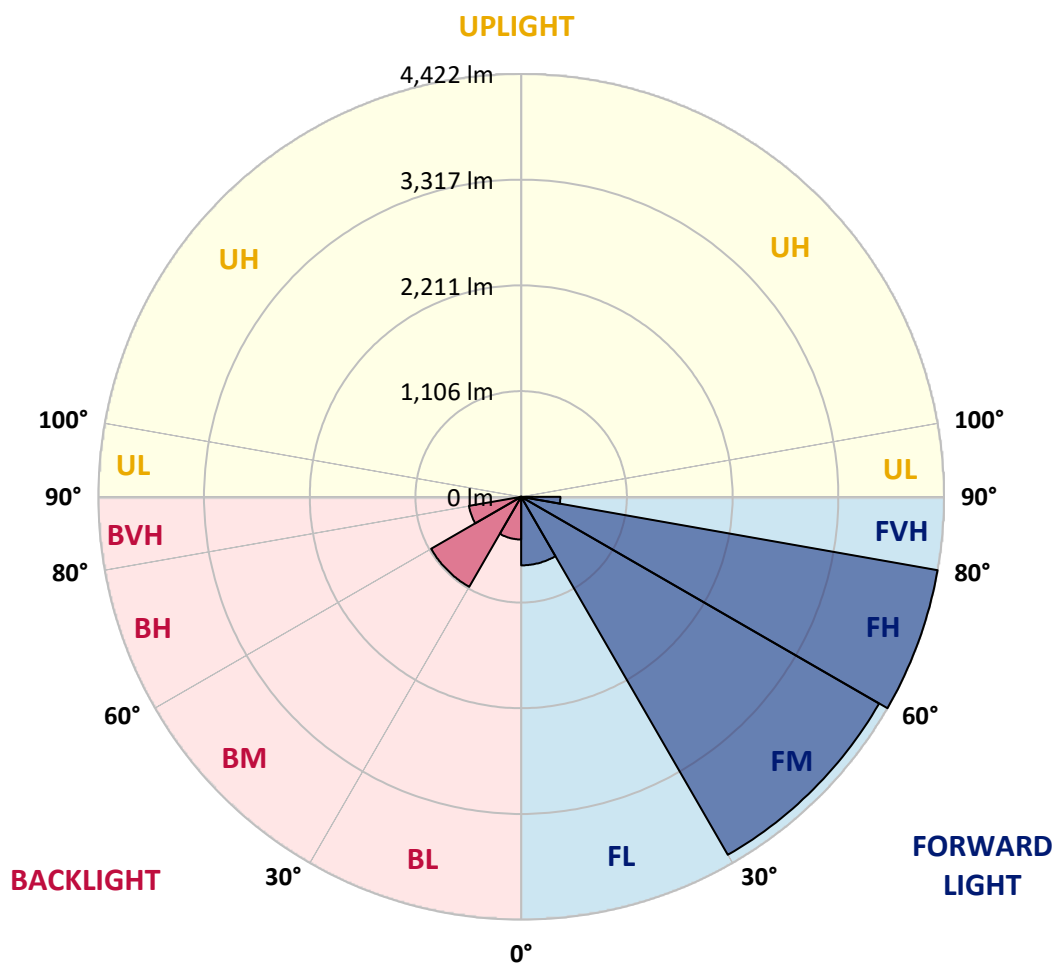
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	716.8	6.0			
FM	(30°-60°)	4322.8	36.1			
FH	(60°-80°)	4422.0	36.9			G2/5000
FVH	(80°-90°)	409.8	3.4			G3/500
BL	(0°-30°)	446.4	3.7	B1/500		
BM	(30°-60°)	1087.1	9.1	B2/2500		
BH	(60°-80°)	554.4	4.6	B2/1000		G2/1000
BVH	(80°-90°)	15.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4
2.5°	1280.5	1289.5	1283.7	1263.1	1259.2	1258.0	1244.4	1232.8	1225.7	1223.8	1201.9
5°	1350.1	1357.2	1355.3	1332.1	1325.6	1310.8	1299.2	1268.9	1264.4	1258.0	1231.5
7.5°	1402.3	1403.6	1415.2	1395.9	1389.4	1371.4	1354.6	1326.9	1321.8	1311.4	1274.1
10°	1450.6	1459.7	1466.1	1441.6	1451.9	1429.4	1409.4	1390.1	1368.8	1368.2	1321.1
12.5°	1481.6	1486.7	1500.9	1481.6	1496.4	1495.8	1477.7	1455.8	1443.6	1432.6	1379.1
15°	1500.9	1506.7	1525.4	1540.2	1545.4	1553.8	1553.1	1536.4	1515.1	1511.2	1455.8
17.5°	1531.2	1536.4	1550.5	1574.4	1592.4	1611.1	1625.9	1627.2	1614.3	1609.8	1558.9
20°	1577.0	1576.3	1584.0	1597.6	1631.7	1673.0	1705.8	1718.1	1712.9	1712.3	1674.9
22.5°	1625.3	1622.7	1630.4	1636.9	1672.3	1741.3	1795.4	1826.4	1828.3	1824.4	1818.0
25°	1702.6	1689.7	1689.1	1696.2	1743.2	1823.1	1894.0	1946.9	1952.0	1962.3	2019.7
27.5°	1899.2	1897.2	1839.9	1790.9	1822.5	1913.4	2017.8	2087.4	2111.2	2150.5	2258.8
30°	2182.1	2171.1	2147.3	2033.2	1948.2	2031.3	2162.8	2270.4	2295.5	2435.4	2532.0
32.5°	2436.0	2423.8	2414.1	2308.4	2191.1	2172.4	2304.5	2488.2	2560.4	2776.9	2849.1
35°	2657.7	2650.6	2650.6	2579.7	2461.1	2380.6	2474.7	2720.2	2893.6	3196.4	3215.8
37.5°	2858.8	2864.6	2872.3	2794.3	2733.7	2708.0	2700.9	3007.6	3266.0	3584.4	3587.0
40°	3036.6	3049.5	3065.0	3008.3	2967.0	2989.6	2947.7	3354.3	3675.9	4021.3	3940.1
42.5°	3175.2	3192.6	3270.6	3191.9	3222.2	3268.0	3259.0	3629.5	4027.8	4341.0	4262.4
45°	3278.3	3291.8	3338.9	3361.4	3433.6	3525.1	3545.1	3911.8	4329.4	4632.3	4525.3
47.5°	3358.8	3349.2	3377.5	3492.9	3645.0	3747.4	3826.7	4235.3	4624.5	4901.6	4755.4
50°	3396.2	3394.9	3465.2	3607.0	3829.3	3975.6	4127.7	4657.4	4933.2	5158.8	4993.2
52.5°	3423.9	3446.5	3557.3	3723.0	4013.0	4212.7	4372.6	5066.0	5284.4	5441.7	5254.2
55°	3444.6	3488.4	3597.3	3786.8	4139.3	4417.0	4629.7	5437.2	5677.6	5709.1	5489.4
57.5°	3316.3	3362.7	3534.8	3805.4	4237.9	4593.6	4894.6	5863.2	6103.5	6084.8	5741.4
60°	3099.1	3136.5	3346.6	3752.0	4250.1	4790.2	5273.5	6336.8	6581.1	6578.5	6039.7
62.5°	2869.7	2903.2	3110.7	3575.4	4168.3	4897.1	5715.6	7047.6	7149.5	7048.3	6311.7
65°	2577.8	2611.9	2818.2	3278.9	3966.6	4891.3	6088.7	7808.1	8013.0	7720.4	6617.8
67.5°	2191.1	2245.9	2432.1	2858.8	3578.0	4705.1	6412.2	8381.6	8491.2	8227.0	6807.9
70°	1714.2	1767.7	1935.9	2371.6	3082.4	4279.1	6571.4	8587.2	8643.3	8399.0	6907.8
72.5°	1197.4	1241.8	1317.9	1694.9	2395.4	3621.8	6561.7	8488.0	8485.4	8237.3	6680.3
75°	426.6	486.6	794.6	1024.0	1394.6	2663.5	6132.5	8079.4	8107.8	7882.8	6211.8
77.5°	110.8	116.0	244.9	494.3	783.6	1288.2	4554.3	7311.9	7388.6	7127.6	5461.7
80°	81.2	85.1	117.9	344.1	448.5	567.1	2497.9	5991.4	6229.2	6093.2	4187.6
82.5°	57.4	61.9	86.4	226.8	296.4	377.0	938.3	3253.8	3631.4	3609.5	2066.7
85°	36.1	39.3	54.1	81.2	112.8	151.4	264.2	1670.4	1916.6	2020.3	903.5
87.5°	16.8	19.3	30.3	48.3	69.0	79.9	79.9	358.3	446.6	474.3	192.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4
2.5°	1190.3	1198.0	1181.3	1171.6	1151.6	1142.0	1136.8	1127.1	1124.6	1129.1	1133.6
5°	1218.0	1219.9	1185.8	1156.8	1131.6	1103.3	1089.8	1061.4	1049.2	1053.7	1058.8
7.5°	1253.4	1250.2	1198.0	1154.8	1109.7	1070.4	1042.7	997.6	984.7	981.5	988.6
10°	1287.0	1270.8	1212.8	1154.2	1094.3	1040.1	997.6	949.9	919.0	915.1	916.4
12.5°	1347.5	1316.6	1249.6	1167.1	1094.9	1035.6	973.8	903.5	867.4	855.8	855.8
15°	1431.3	1379.8	1316.6	1221.9	1136.2	1051.7	963.4	871.9	808.8	781.1	780.4
17.5°	1521.5	1477.7	1410.7	1297.9	1185.1	1065.3	940.9	822.3	739.2	699.9	696.0
20°	1645.9	1620.8	1544.1	1389.4	1232.2	1067.2	912.5	761.1	649.0	595.5	583.9
22.5°	1821.8	1787.7	1659.4	1461.0	1248.3	1051.1	858.4	662.5	524.6	454.3	447.2
25°	2003.6	1951.4	1771.6	1511.2	1260.5	1018.9	780.4	525.9	377.0	311.3	302.9
27.5°	2204.6	2122.8	1867.6	1558.9	1245.7	963.4	642.5	366.0	244.9	203.0	194.6
30°	2437.9	2318.7	1970.7	1591.8	1229.6	851.3	475.6	237.2	158.5	127.6	125.7
32.5°	2727.3	2562.3	2072.5	1607.9	1171.6	705.0	307.4	151.4	98.0	82.5	79.9
35°	3072.7	2842.6	2209.2	1604.7	1076.9	510.4	192.7	88.9	65.1	62.5	62.5
37.5°	3400.1	3148.1	2372.8	1591.1	926.7	325.4	110.2	58.0	56.7	65.1	69.0
40°	3731.3	3446.5	2549.4	1554.4	736.6	195.9	61.2	51.6	54.1	63.8	67.7
42.5°	4019.4	3681.7	2720.2	1474.5	518.8	105.0	54.1	48.3	50.9	55.4	56.1
45°	4252.0	3900.2	2812.4	1362.4	307.4	66.4	51.6	46.4	44.5	46.4	47.0
47.5°	4502.1	4086.4	2887.1	1196.7	166.3	65.1	50.9	43.2	39.3	38.0	39.3
50°	4688.3	4284.3	2913.5	951.8	87.6	62.5	48.3	39.3	35.4	38.0	38.7
52.5°	4868.1	4436.4	2901.3	664.4	74.1	57.4	44.5	36.7	33.5	41.2	43.2
55°	5107.9	4623.9	2813.0	323.5	72.2	54.1	40.0	32.2	32.2	32.2	32.2
57.5°	5327.0	4752.8	2636.4	147.6	69.6	49.6	36.1	29.0	24.5	27.1	27.7
60°	5553.8	4951.9	2335.5	94.1	65.7	43.2	30.9	25.1	21.3	21.3	21.9
62.5°	5778.7	4994.4	1917.2	83.1	62.5	39.3	27.1	21.9	18.0	18.0	19.3
65°	5964.3	4923.6	1412.0	74.1	59.3	35.4	24.5	20.0	15.5	14.8	15.5
67.5°	5894.1	4577.5	917.0	66.4	54.1	32.2	21.3	18.0	14.2	11.6	12.2
70°	5619.6	4056.1	495.6	63.8	49.0	29.6	19.3	16.1	12.9	9.7	9.7
72.5°	5177.5	3418.1	186.2	59.3	45.1	25.8	17.4	16.1	12.2	7.7	7.1
75°	4453.1	2581.0	88.3	53.5	38.0	23.2	17.4	16.8	12.2	5.2	4.5
77.5°	3572.2	1439.7	67.7	45.1	30.9	19.3	17.4	16.1	7.1	2.6	1.9
80°	1919.8	540.7	50.9	32.9	22.6	14.8	16.1	11.6	3.2	0.6	0.0
82.5°	761.7	133.4	35.4	14.8	9.7	6.4	9.0	4.5	0.6	0.0	0.0
85°	192.0	52.2	21.9	7.7	5.2	3.2	1.3	0.0	0.0	0.0	0.0
87.5°	21.9	14.8	6.4	3.9	1.9	0.6	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)